

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 02-239798

(43)Date of publication of application : 21.09.1990

(51)Int.Cl.

H04R 3/12

H03H 17/06

H04R 1/40

(21)Application number : 01-061601

(71)Applicant : TOA ELECTRIC CO LTD

(22)Date of filing : 13.03.1989

(72)Inventor : FURUKAWA YASUHIRO

FUKUYAMA KAZUO

KURIYAMA JOJI

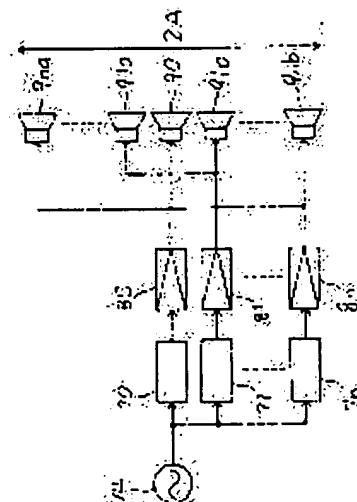
SHINDO TAKEO

## (54) DIRECTIVITY CONTROL TYPE SPEAKER ARRAY SYSTEM

### (57)Abstract:

**PURPOSE:** To easily obtain a uniform directivity over a board band from a low to a high sound frequency band by using a finite response length digital filter (FIR filter) so as to apply optimum control to the amplitude and phase characteristic of a speaker array for each frequency point.

**CONSTITUTION:** The directivity control type speaker array system consists of plural FIR filters 70-7n, plural amplifiers 80-8n and plural speaker units 90, 91a, 91b - 9na, 9mb and a sound signal generated from a sound signal source 14 is branched into plural ways and inputted to the FIR filters 70-7n. The array units are grouped from the center of the speaker array toward one end into one or plural adjacent speaker units 90-9n and speaker units 90-9n at the symmetrical position as one pair such as 91a and 91b. One FIR filter 70-7n controls all the sets of the speaker units 90-9n.



## LEGAL STATUS